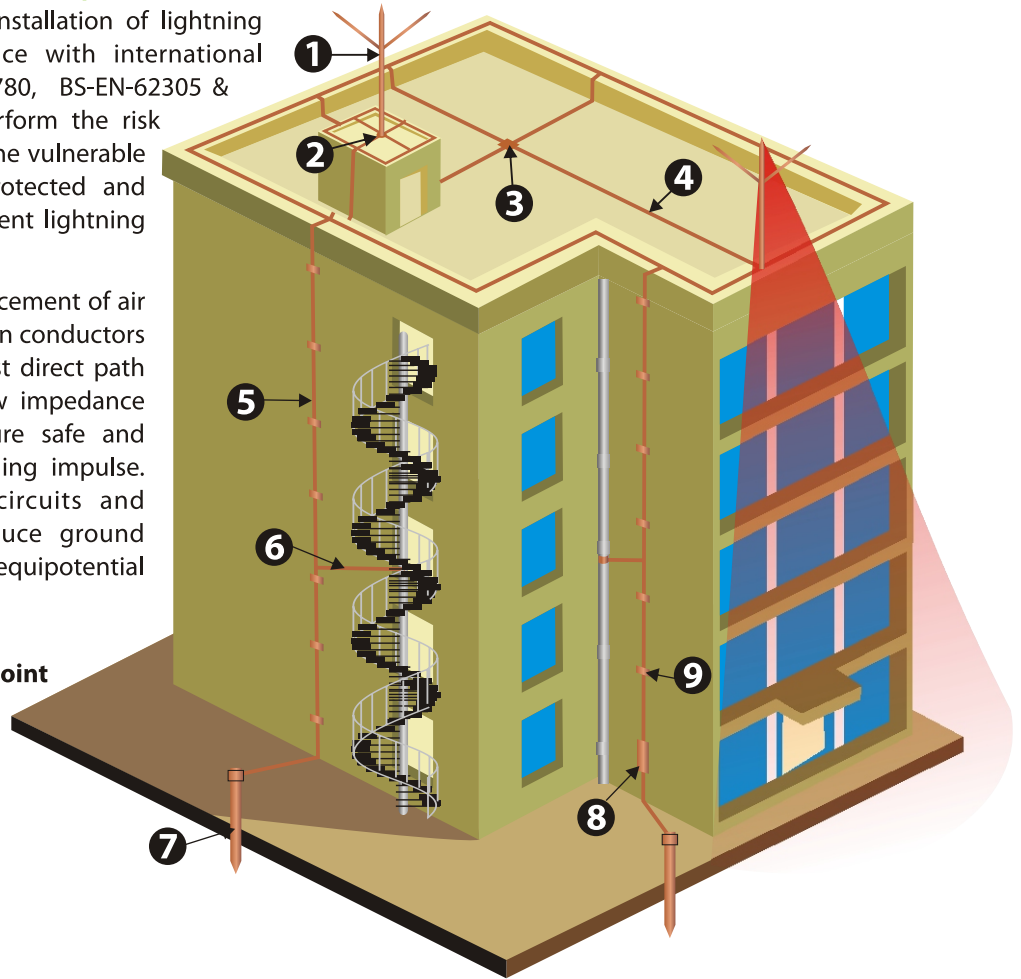


## Lightning Protection System

We undertake design, supply & installation of lightning protection systems in compliance with international standards like IEC-62305 & NFPA-780, BS-EN-62305 & IS-2309. Our team of experts perform the risk assessment studies to determine the vulnerable areas of the structure to be protected and accordingly design the most efficient lightning protection scheme.

This ensures the most effective placement of air terminations on the structure. Down conductors are positioned to provide the most direct path from the air termination to a low impedance grounding system, to help ensure safe and effective dissipation of the lightning impulse. Equipotential bonding of all circuits and conductors is necessary to reduce ground potential differences and to limit equipotential damage.

1. Air Terminal with multi-point
2. Air Terminal base
3. Square Clamp
4. Copper or G.I. Mesh
5. Downconductor
6. Bonding to staircase
7. Earthing Rod
8. Oblong test clamp
9. DC Tape Clip



### Material Specifications:

#### TAPER POINTED AIRRODS

Air termination network is the point of connection of Lightning Strike to the Protection System. These can be used with or without multipoint, however researches conducted in this regard suggest use of multiple points with taper air rods are more effective than only taper air rods.

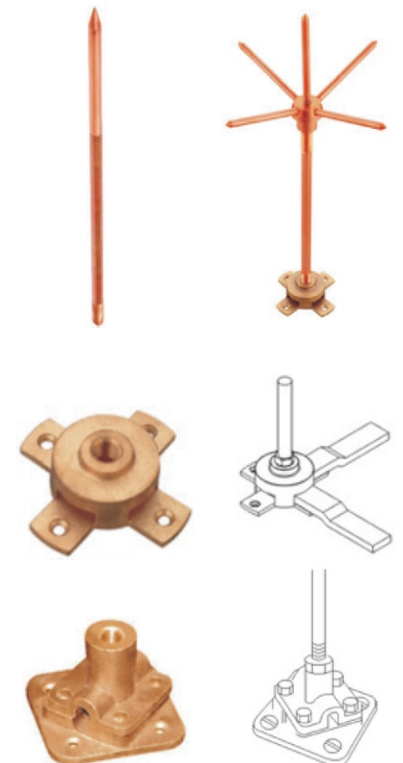
The Taper Pointed Air Rods on one side have taper of less than 5 deg. for a perfect taper fit with multiple and on the other side has suitable threads for fixing into terminal Base, Flat Saddle, Ridge Saddle, Air Rod Base, Rod Brackets and Air Rod Couplings.

#### AIRTERMINAL BASE - TAPE

These are used for fixing air rods onto the flat roof surfaces and to accommodate tape for the protection system. The threads are suitable for air rods.

#### Flat Saddle - Type 'C'

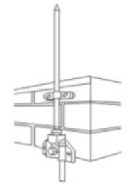
These are used for fixing air rods onto the flat roof surfaces and to accommodate circular conductors and Cables to the protection system. The threads are suitable for air rods.



# Lightning Protection System

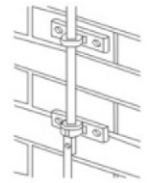
## AIR ROD BASE - CABLE

These are used for fixing air rods Horizontally or Vertically and to accommodate circular conductors and cables to the protection system. The threads are suitable for air rods.



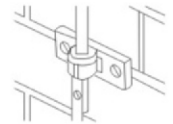
## ROD BRACKETS - SIDE MOUNTING BRACKETS

Rod Brackets are mainly used where it is not possible to fit a saddle on the roof, so the air rod has to be fitted on the wall or to the side of the building or chimney. The Rod to Tape/Cable Coupling is used to secure air terminal to Tape or Cable.



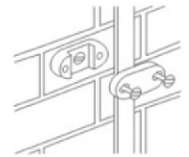
## AIR ROD TO TAPE/CABLE COUPLING

These are used in conjunction with the Rod Brackets. The air rod is screwed in to the threads provided and the Tape and Cable is secured by the Bolts provided. The threads are suitable for air rods.



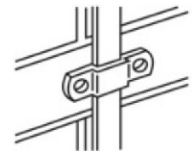
## DC TAPE CLIP

Metallic DC Clips are used to secure the flat conductor to the building. It is recommended to use DC Clips at 1 mtr. distance. The Tape fits into the clip and is secured by two counter shank screws. These clips can be fastened to the building by recommended csk woodscrew 1 1/2" x No 10 plugs.



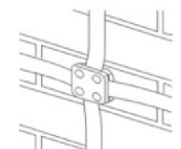
## TAPE CLIP

These are used to flush the tape with building surface. These are fixed using two screws and plugs.



## SQUARE TAPE CLAMP

Square tape / Junction Clamps are used for crossing over tapes or for T joints or for making straight through joints in a network or Tapes. These clamps can be fastened to the building by recommended csk woodscrew 1 1/2" x No 10 Plugs.



## LONG TEST OR JUNCTION CLAMP

Oblong Test / Junction Clamps are used for straight through tape joints and also used for disconnecting the earthing or Lightning protection system for testing purpose. The tapes can be overlapped and secured by two bolts.

